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In re patent application of Michael J. Sullivan

Serial No.: 09/776,278

Examiner: R. Gorden

Filing Date: February 2, 2001

Group Art Unit: 3711

For: IMPROVED MULTI-LAYER GOLF BALL

Commissioner for Patents & Trademarks

Washington, DC 20231

Sir.

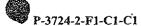
RESPONSE

This is in response to the Office Action of July 3, 2001. Please consider the following remarks.

THE CHINGS IN THE STATE OF THE

CERTIFICATE OF MAILING (37 C.F.R. 1.8a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner of Patents & Trademarks, Washington, D.C. 20231, on this 19th day of September , 2001.



REMARKS

Reconsideration and entry of the amendment are respectfully requested. Claims 1 to 8 are currently pending, and no claims have been amended.

The Office Action mailed July 3, 2001 addressed Claims 1 to 8. Claims 1 to 8 were rejected.

The specification was objected to by the Examiner as failing to provide proper antecedent basis for the claimed subject matter, and correction was required. The Examiner stated that in claim 7, an outer cover layer having a modulus in a range of about 1,000 to about 30,000 psi is not in the specification.

The present application is a continuation of several applications which relate back to U.S. Patent Application Serial No. 08/556,237, filed on November 9, 1995. Original claim 6 (initially mislabeled as claim 8 in the specification) specifies that the outer cover layer has a flex modulus in a range of about 1,000 to about 30,000 psi. Specifically, claim 6 reads as follows:

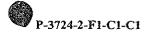
[8.] 6. A multi-layer golf ball comprising:

a spherical core;

an inner cover layer molded over said spherical core to form a spherical intermediate ball, said inner cover layer comprising an ionomeric resin having no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid and having a modulus of from about 15,000 to about 70,000 psi;

an outer cover layer molded over said spherical intermediate ball to form a multi-layer golf ball, the outer layer comprising a non-ionomeric elastomer selected from the group consisting of polyester elastomer, polyester, polyether polyurethane and polyester amide, said outer cover layer having a modulus in a range of about 1,000 to about 30,000 psi. (Emphasis added.)

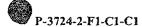
Since the limitation directed to the flex modulus of the outer cover was included in original claim 6 (labeled as claim 8 when filed), it is part of the specification. A copy of pages 48 to 50 of the original specification directed to claims 1 to 6 is attached for the Examiner's convenience. Applicant therefore respectfully submits that the



specification provides proper antecedent basis for the claimed subject matter, therefore Applicant respectfully requests that the objection be reconsidered and withdrawn.

Claims 1 and 3 were rejected under 35 U.S.C. 103(a) as being unpatentable over Proudfit in view of Nakamura. The Examiner stated that Proudfit discloses a golf ball comprising a core, an inner cover layer and an outer cover layer. The Examiner further stated that the inner cover layer is made from an ionomer and the outer cover is made from an elastomer, but Proudfit does not disclose an inner cover layer with a carboxylic acid. The Examiner further stated that Nakamura teaches an ionomer comprising 10 to 20% by weight of an alpha, beta-unsaturated carboxylic acid. The Examiner concluded that since the addition of acids to ionomers is very common, one of ordinary skill in the art would have added an acid to the inner cover layer of Proudfit to increase the flexibility of the composition.

Proudfit discloses a golf ball comprising a core, an inner cover layer, and an outer cover layer. The inner cover layer is made from an ionomer, and the outer cover layer is made from an elastomer. Proudfit does not disclose an inner cover layer with a carboxylic acid. Additionally, the elastomer of the outer cover layer of Proudfit is a natural or synthetic balata (see column 5, line 15 to column 6, line 31). Applicant's invention is not directed to a golf ball comprising a balata outer cover layer. The cover of Applicant's golf ball comprises a polyurethane. The present application, at page 2, lines 11 to 14, distinguishes the use of a polyurethane cover over a balata cover, such as the cover claimed by Proudfit. Specifically, the specification states: "Despite all the benefits of balata, balata covered golf balls are easily cut and/or damaged if mis-hit. Golf balls produced with balata or balata-containing cover compositions therefore have a relatively short lifespan." Since, as discussed above, the primary reference, Proudfit, is deficient because it does not disclose a golf ball with an outer cover layer comprising polyurethane, the addition of Nakamura as a secondary reference does not cure this deficiency. Neither Proudfit alone as the primary reference, nor in combination with Nakamura, produces a golf ball comprising an inner cover layer comprising at least one ionomer resin having less than 16 % acid and an outer cover layer comprising a polyurethane. Adding the ionomer of Nakamura to Proudfit does not produce



Applicant's golf ball, which comprises an inner cover layer having less than 16 % acid and an outer cover layer comprising a polyurethane.

For at least these reasons, Applicant respectfully submits that claims 1 and 3 are not obvious under 35 U.S.C. § 103(a) over Proudfit in view of Nakamura. Applicant therefore respectfully requests that the rejection of claims 1 and 3 under 35 U.S.C. § 103(a) as obvious over Proudfit in view of Nakamura be reconsidered and withdrawn.

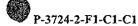
Claims 1 to 8 were rejected under the judicially created doctrine of obvious-type double patenting as being unpatentable over claims 1 to 8 of U.S. Patent No. 6,210,293. The Examiner stated that although the conflicting claims are not identical, they are not patentably distinct from each other because the '293 patent and the present application claim golf balls comprising a core, an inner cover layer and an outer cover layer, and the inner cover layer is made from ionomer and the outer cover layer is made from a polyurethane.

Although Applicant respectfully disagrees with the Examiner, in an effort to hasten prosecution, Applicant herein submits a Terminal Disclaimer which disclaims the terminal portion of any patent granting from the instant application, as required under MPEP § 1490. Applicant respectfully submits that this overcomes the rejection.

The Examiner is invited to telephone Applicant's attorney if it is deemed that a telephone conversation will hasten prosecution of the application.

Case 1:06-cv-00091-SLR Document 227-3 Filed 08/14/07 Page 16 of 70 PageID #: 5190

09/776,278



CONCLUSION

Applicant respectfully requests reconsideration and allowance of each of the presently rejected claims, claims 1 to 8. Applicant respectfully requests allowance of claims 1 to 8, the claims currently pending.

Respectfully submitted,

Michael J. Sullivan

Customer No. <u>24492</u> Phone: (413) 322-2937

Date: *Juplember* 19, 2001

Michelle Bugbee, Reg. No. 42,370

Spalding Sports Worldwide Attorneys for Applicant 425 Meadow Street

P.O. Box 901

Chicopee, MA 01021-0901

cc: Richard M. Klein, Esquire (SLD 2 0035-3-3-1-1-1)

THOUSE TO SEE THE SEE

1. A golf ball comprising:

a core;

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an inner cover layer having a Shore D hardness of 60 or more molded on said core, the inner cover layer comprising a blend of two or more low acid ionomer resins containing no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid; and

an outer cover layer having a Shore D hardness of 64 or less molded on said inner cover layer, said outer cover layer comprising a relatively soft polymeric material selected from the group consisting of non-ionomeric thermoplastic and thermosetting elastomers.

- 2. A golf ball according to claim 1, wherein the inner cover layer has a thickness of about 0.100 to about 0.010 inches and the outer cover layer has a thickness of about 0.010 to about 0.70 inches, the golf ball having an overall diameter of 1.680 inches or more.
- 3. A golf ball according to claim 1 wherein the inner cover layer has a thickness of about 0.050 inches and the outer cover layer has a thickness of about 0.055 inches, the golf ball having an overall diameter of 1.680 inches or more.

- 4. A golf ball according to claim 1 wherein the outer layer comprises a polyurethane based material.
 - 5. A multi-layer golf ball comprising:
 - a spherical core;

5

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an inner cover layer having a Shore D hardness of about 60 or more molded over said spherical core, said inner cover layer comprising an ionomeric resin including no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid and having a modulus of from about 15,000 to about 70,000 psi;

an outer cover layer having a Shore D hardness of about 64 or less molded over said spherical intermediate ball to form a multi-layer golf ball, the outer layer comprising polyurethane based material.

(/eta. A multi-layer golf ball comprising:

a spherical core;

an inner cover layer molded over said spherical core to form a spherical intermediate ball, said inner cover layer comprising an ionomeric resin having no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid and having a modulus of from about 15,000 to about 70,000 psi;

an outer cover layer molded over said spherical intermediate ball to form a multi-layer golf ball, the outer layer

comprising a non-ionomeric elastomer selected from the group consisting of polyester elastomer, polyester, polyether polyurethane and polyester amide, said outer cover layer having a modulus in a range of about 1,000 to about 30,000 psi.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Michael J. Sullivan

Serial No.:

09/776,278

Filed:

February 2, 2001

Group No

3711

Examiner:

R. Gorden

For:

Improved Multi-Layer Golf Ball

Commissioner of Patents and Trademarks Washington, D.C. 20231

TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING **REJECTION (37 CFR 1.321(b))**

Identification Of Person(s) Making This Disclaimer

Name(s) of disclaimant(s):

Richard M. Klein

having an address of:

Fay, Sharpe, Fagan, Minnich & McKee, LLP

1100 Superior Avenue, Seventh Floor

Cleveland, OH 44114-2518

represent that I am

an inventor of this invention

an assignee of this invention

XX Attorney of record in the present application

TECHNOLOGY CENTER ROTOS

CERTIFICATE OF MAILING (37 CFR 1.8a)

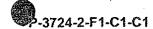
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an enveloped addressed to the: Assistant Commissioner of Patents and

Trademarks, Washington, D.C. 20231

(Terminal Disclaimer to Obviate a Double Patenting Rejection (37CFR 1.321(b))

{9-4}-page 1 of 4}





Identity of Assignee and Title of Disclaimant (if applicable)

-2-

The assignee is

Name of assignee:

Spalding Sports Worldwide, Inc.

Address of assignee:

425 Meadow Street

Chicopee, MA 01013

Title of disclaimant authorized to sign on behalf of assignee:

Counsel

Recordal of Assignment in PTO

XX the assignment to Spalding Sports Worldwide, Inc. from Lisco Inc. was recorded on Reel: 010232; Frame: 0251 on April 23, 1999; the assignment to Lisco Inc. was recorded on Reel: 7750; Frame: 0242 on November 9, 1995

authorization for recordal of the assignment is separately attached

Extent of Interest

The extent of my (our) interest is in

XX the whole of this invention

__ a sectional interest in this invention as follows (here state the exact interest of the disclaimant(s):

Statement Pursuant to 37 C.F.R. 3.73(b)

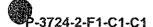
I the undersigned, have reviewed all the evidentiary documents in the chain of title of the

XX patent application

patent

matter identified above and, to the best of my knowledge and belief, title is in the assignee identified above which is seeking to take action.

(Terminal Disclaimer to Obviate a Double Patenting Rejection (37CFR 1.321(b)) {9-4}-page 2 of 4)



Disclaimer

-3-

I hereby disclaim the terminal part of any patent granted on the above-identified application, which would extend beyond the expiration date of the full statutory term of:

- XX United States Patent No. <u>6,210,293</u>, as presently shortened by any terminal disclaimer
- Any patent granted on application number:

and hereby agree that any patent so granted on the above-identified application shall be enforceable only for and during such period that the legal title to said patent shall be the same as the legal title to

XX United States Patent No. 6,210,293

___ Any patent granted on application number:

this agreement to run with any patent granted on the above-identified application and to be binding upon the grantor, its successors or assigns.

Petitioner does not disclaim any terminal part of any patent granted on the above-identified application prior to the expiration date of the full statutory term of

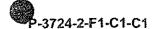
- XX United States Patent No. <u>6,210,293</u> as presently shortened by any terminal disclaimer
- ___ Any patent granted on application number:

In the event that it later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321(a), has all claims canceled by a reexamination certificate, or is otherwise terminated prior to expiration of its statutory term as presently shortened by any terminal disclaimer, except for the separation of legal title stated above.

(Terminal Disclaimer to Obviate a Double Patenting Rejection (37CFR 1.321(b))

(9-4) -- page 3 of 4)





Fee Status

(37 CFR 1.20(d) and 37 CFR 1.321)

\underline{XX} other than a small entity fee \$110.00
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verified statement attached
verified statement filed on
Fee Payment
Attached is a check in the sum of \$
The fee for this Disclaimer was previously paid on ; XX Charge Account 17-0150 for any fee deficiency required by this paper.
\underline{XX} Charge Account 17-0150 the sum of \$110.00. A duplicate of this disclaimer is \underline{XX} attached.

Declaration

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Spalding Sports Worldwide, Inc.

Date: 94/201

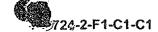
By: N. Klein, Counsel

Reg. No. 33,000 Fay, Sharpe, Fagan, Minnich & McKee, LLP 1100 Superior Avenue, Seventh Floor Cleveland, OH 44114-2518

(Terminal Disclaimer to Obviate a Double Patenting Rejection (37CFR 1.321(b)) {9-4}-page 4 of 4)

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Fee Status

(37 CFR 1.20(d) and 37 CFR 1.321)

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	aimer was previously paid on : -0150 for any fee deficiency required by this paper. \(\frac{\chi_0508}{\chi_0508} \left(\frac{\chi_01}{\chi_0508} \right) \)
	-0150 the sum of \$110.00. A duplicate of this
disclaimer is \underline{XX} attached.	or 06-0308 (Zunk 10/4/2001)
	Declaration

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Spalding Sports Worldwide, Inc.

Richard M. Klein, Counsel

Reg. No. 33,000

Fay, Sharpe, Fagan, Minnich & McKee, LLP 1100 Superior Avenue, Seventh Floor

Cleveland, OH 44114-2518

(Terminal Disclaimer to Obviate a Double Patenting Rejection (37CFR 1.321(b)) (9-4)--page 4 of 4)

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Case 1:06-cv-00091-SLR Document 227-3 Filed 08/14/07 Page 25 of 70 PageID #: 5199



FAY. SHARPE. FAGAN. MINNICH & MCKEE. L

PATENT TRADEMARK AND COPYRIGHT LAW

1100 SUPERIOR AVENUE

SEVENTH PLOOR

MARK E. BANDY JOSEPH D. DREHER CHRISTOPHER B. FAGAN JUDE A. FRY STEVEN M. HAAS MICHAEL E. HUDZINSKI RICHARD M. KLEIN THOMAS E. KOCOVSKY, JR.

NOT ADMITTED IN ONIO

SCOTT A. MCCOLLISTER JAMES W. MCKEE JAY F. MOLDOVANYI PHILIP J. MOY. JR. TIMOTHY E. NAUMAN MARK 5. SVAT

SANDRA M. KOENIG

CLEVELAND, OHIO 44114-2518

TELEPHONE (216) 861-5582 FAX (216) 241-1666

E-MAIL: fs@faysharpe.com

COLLEEN FLYNN GOSS JOHN P. CORNELY JAMES E. SCARBROUGH ANN M. SKERRY, PH.D. W. SCOTT HARDERS BRIAN G. BEMBENICK DAVID B. CUPAR JASON A. WORGULL ERIK J. OVERBERGER SCOTT C. RAND* EDWARD T. KENNEDY ANUJ K. WADHWA

JOSEPH E. WATERS PATRICK D. FLOYD

RICHARD J. MINNICH SUE ELLEN PHILLIPS

THOMAS TILLANDER

ALBERT P. SHARPE, III 1959-2001

October 4, 2001

CONFRACTION COPY

Richard M. Klein RKlein@faysharpe.com

VIA FACSIMILE CONFIRMATION COPY BY MAIL

LaShawn Morgan U.S. Patent and Trademark Office Washington, D.C. 20231

U.S. Patent Application Serial No. 09/776,278 For: IMPROVED MULTI-LAYER GOLF BALL Attorney Docket No. P-3724-2-F1-C1-C1 Our Reference No. SLD 2 0035-3-3-1-1-1

Dear Ms. Morgan:

It is our understanding, that the U.S. Patent and Trademark Office believes that a deficiency may exist in the Terminal Disclaimer that we submitted on September 19, 2001 concerning the above-identified U.S. Patent application. Evidently, the Terminal Disclaimer indicated that fees associated with the filing of the Disclaimer should be charged to Account No. 17-0150. I, Richard M. Klein, as an agent for Spalding Sports Worldwide, Inc. executed the Terminal Disclaimer. However, according to your accounting records, I am not authorized to charge any fees to Spalding's Account No. 17-0150. In order to correct this deficiency, I have included herewith a new page 4 wherein I have authorized that any fees concerning the Terminal Disclaimer should be charged to our firm's account, i.e. Account No. 06-0308. This we believe, should alleviate the deficiency as previously noted by the U.S. Patent and Trademark Office.

LaShawn Morgan U.S. Patent and Trademark Office October 4, 2001 Page 2

Kindly review the above information and the attached materials, and if you have any further questions concerning the same, please feel free to contact us at your convenience.

Very truly yours,

FAY, SHARPE, FAGAN, MINNICH & McKEE, LLP

Richard M. Klein

RMK/lab

cc: Michelle Bugbee, Esq. Enclosure

N:\SLD\20035\3B1C\LAB0275A.WPD

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FAY. SHARPE. FAGAN. MINNICH & MCKEE. LLP

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SEVENTE PLOOR

Mark E. Bandy Joseph D. Dmered Cndistopher B. Pagam Jude A. Fry Steven M. Haad Michael E. Hudeinski Richard M. Kleim THOMAS E. KOCOVSKY, JA.

James W. Moree Jay F. Moldovanyi Philip J. Hot. Jr. Timothy E. Nauman Patrick R. Roche Mark S. Syat

BANDRA M, KOCHIO BCOTT A. MCCOLLIBTER JAMES W. MCKEE

CLEVELAND, OHIO 44114-EBIS

TELEPHONE (2)6; 661-8592 FAX (3)6) 241-1666 H-MAIL: h@fsyshups.com

COLLERS FLYNN GOSD JOHN P. CORNELY JAMES S. BCADBROUGH ANN M. BERRY, PH.D. W. SCOTT HANDERD SRIAN G. BENDEMCK DAVID B. CUPAR JAJON A. WORDUL ERIK J. OVERSENSED SCOTT C. RAND" EDWARD T. RENNEDY ANUL K. WADNWA

BY CONFER BUE ELLEN PHILLIPB THOMAS TILLANDER ALGERT P. SHARPE, III

October 4, 2001

Richard M. Klein

VIA FACSIMILE CONFIRMATION COPY BY MAIL

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LaShawn Morgan U.S. Patent and Trademark Office Washington, D.C. 20231

OCT 05 2001

GROUP 3700

RE:

U.S. Petent Application Serial No. 09/776,278 For: IMPROVED MULTI-LAYER GOLF BALL Attorney Docket No. P-3724-2-F1-C1-C1 Our Reference No. SLD 2 0035-3-3-1-1-1

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LaShawn Morgan U.S. Patent and Trademark Office October 4, 2001 Page 2

Kindly review the above information and the attached materials, and if you have any further questions concerning the same, please feet free to contact us at your convenience.

Very truly yours,

FAY, SHARPE, FAGAN, MINNICH & McKEE, LLP

Richard M. Klein

RМКЛаъ

cc: Michelle Bugbee, Esq. Enclosure

N:1SLD120035/3B1C1LAB0275A.WPD

Fee Status

(37.0	PR 1.20(d) and 37 CFR 1.321)
XX other than a small	entity fee \$110.00
small entity—fee \$5	55.00
verified s	tatement attached
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	Fee Payment
Attached is a check	k in the sum of \$
XX Charge Account 1	relaimer was previously paid on: 7-0150 for any see desiciency required by this paper. 7-0150 the sum of \$110.00. A duplicate of this or \$\infty\$ \$\infty
•	Declaration
true and that all statements and further that these statements and the like so munder Section 1001 of Title	all statements made herein of my own knowledge are made on information and belief are believed to be true; nents were made with the knowledge that willful false ade are punishable by fine or imprisonment, or both, 18 of the United States Code and that such willful false he validity of the application or any patent issued
	Spalding Sports Worldwide, Inc.
Date: 941/2001	By: Richard M. Klein, Counsel Reg. No. 33,000 Fay, Sharpe, Pagan, Minnich & McKee, LLP 1100 Superior Avenue, Seventh Floor Cleveland, OH 44114-2518
Date: 94/200	By: VLM. KQ (Que to hall) Richard M. Klein, Counsel Reg. No. 33,000 Pay, Sharpe, Pagan, Minnich & McKee, ILP 1100 Superior Avenue, Seventh Floor
Date: 94/200	By: Richard M. Klein, Counsel Reg. No. 33,000 Fay, Sharpe, Pagan, Minnich & McKee, LLP 1100 Superior Avenue, Seventh Floor Cleveland, OH 44114-2518 (Terminal Disclaimer to Obviate a Double Patenting Rejection (37CFR 1.321(b))
Date: 94/200	By: Richard M. Klein, Counsel Reg. No. 33,000 Fay, Sharpe, Pagan, Minnich & McKee, LLP 1100 Superior Avenue, Seventh Floor Cleveland, OH 44114-2518 (Terminal Disclaimer to Obviate a Double Patenting Rejection (37CFR 1.321(b))
Date: 94/200	By: Chard M. Klein, Counsel Reg. No. 33,000 Fay, Sharpe, Fagan, Minnich & McKee, LLP 1100 Superior Avenue, Seventh Floor Cleveland, OH 44114-2518 (Terminal Disclaimer to Obviate a Double Patenting Rejection (37CFR 1.321(b)) [9-4)-page 4 of 4]
Date: 94/200	By: Richard M. Klein, Counsel Reg. No. 33,000 Fay, Sharpe, Pagan, Minnich & McKee, LLP 1100 Superior Avenue, Seventh Floor Cleveland, OH 44114-2518 (Terminal Disclaimer to Obviate a Double Patenting Rejection (37CFR 1.321(b))
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Date: 94/200	By: D. W. Ko. (Quite to plant) Richard M. Klein, Counsel Reg. No. 33,000 Fay, Sharpe, Fagan, Minnich & McKee, LLP 1100 Superior Avenue, Seventh Floor Cleveland, OH 44114-2518 (Terminal Disclaimer to Obviats a Double Patenting Rejection (37CFR 1.321(b)) [9-4)-page 4 of 4]
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#6

FAY, SHARPE, FAGAN, MINNICH & McKEE, LLP 1100 SUPERIOR AVENUE, SEVENTH FLOOR CLEVELAND, OHIO 44114-2518 (216) 861-5582

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GROUP 3700

DATE:	October 4, 2001		
TO:	U.S. Patent and Trademark Office		
ATTENTION:	LaShawn Morgan		
FACSIMILE NO.:	703-305-3579 3 7/1		
FROM:	Richard M. Klein		
RE:	U.S. Patent Application No.09/776,278		
	Attorney Docket No. P-3724-2-F1-C1-C1 Our Reference No. SLD20035-3-3-1-1-1		

Total number of pages (including this cover sheet): ___4___

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Comments:

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Case 1:06-cv-00091-SLR Document 227-3 Filed 08/14/07 Page 31 of 70 PageID #: 5205





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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/776,278	02/02/2001	Michael J. Sullivan	P-3724-2-F1-C1-C1	1289		
7:	590 12/17/2001	•				
Diane F. Cove	Diane F. Covello, Esq.			EXAMINER		
425 Meadow S	s Worldwide, Inc. treet		GORDON,	RAEANN		
PO Box 901 Chicopee, MA 01021-0901			ART UNIT	PAPER NUMBER		
			3711			
•			DATE MAILED: 12/17/2001	8		

Please find below and/or attached an Office communication concerning this application or proceeding.

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 09/776,278

Art Unit: 3711

Page 2

DETAILED ACTION

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: Claim 7, an outer cover layer having a modulus in a range of about 1,000 to about 30,000 psi is not in the specification.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2 and 4-8 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The Shore D hardness for the outer cover layer is 20 to 40 according to the specification (page 15, line 1).

Allowable Subject Matter

Claims 1 and 3 are allowed.

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Application/Control Number: 09/776,278

Art Unit: 3711

Page 3

Terminal Disclaimer

The terminal disclaimer filed on 9-25-01 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 6,210,293 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Response to Arguments

Applicant's arguments filed 10-4-01 have been fully considered but they are not persuasive. The objection to the specification has been maintained. In order to overcome the objection applicant is required to include the subject in the specification.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raeann Gorden whose telephone number is (703) 308-8354. The examiner can normally be reached Monday-Thursday and alternating Fridays from 8:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Sewell can be reached on 703-308-2126. The fax number for the organization where this application or proceeding is assigned is 703-308-7768.

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Application/Control Number: 09/776,278

Page 4

Art Unit: 3711

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

rg 12/13/01 Mark S. Graham
Mark S. Graham
Primary Examiner

MAR 14 '02 07:05PM PATENT DEPT

P.1/8

PATENT P-3724-2-F1-C1-C1 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of Michael J. Sullivan

09/776,278 Serial No.:

Examiner: R. Gorden

Filing Date: February 2, 2001

Group Art Unit: 3711

For: IMPROVED MULTI-LAYER GOLF BALL

Commissioner for Patents & Trademarks Washington, DC 20231

FAX RECEIVED

Sir:

AMENDMENT

In response to the Office Action of December 17, 2001, please amend the above-identified application as follows:

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8a)

I hereby certify that this correspondence is, on the date shown below, being:

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FACSIMILE

deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Assistant Commissioner for Patents, Washington,

D.C. 20231.

 $\mathbf{X}\mathbf{X}$

transmitted by facsimile to the Patent and Trademark Office to Examiner R. Gorden in TC3700 at 703-872-9302.

Date:

Michelle Bugtles

Received from <4133222575 > at 3/14/02 6:05:12 PM [Eastern Standard Time]

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P.2/8

09/776,278

P-3724-2-F1-C1-C1

IN THE SPECIFICATION

Please replace the paragraph beginning at page 24, line 5, with the following rewritten paragraph:



Moreover, in alternative embodiments, the outer cover layer formulation may also comprise a soft, low modulus, non-ionomeric thermoplastic elastomer having a flex modulus in a range of about 1,000 to about 30,000 psi, including a polyester polyurethane such as B.F. Goodrich Company's Estane® polyester polyurethane X-4517. According to B.F. Goodrich, Estane® X-4517 has the following properties:

REMARKS

Reconsideration and entry of the amendment are respectfully requested. Claims 1 to 8 are currently pending, and no claims have been amended.

The Office Action mailed December 17, 2001 addressed Claims 1 to 8. Claims 2 and 4 to 8 were rejected, and claims 1 and 3 were allowed. Applicant notes the allowance with appreciation.

The specification was objected to by the Examiner as failing to provide proper antecedent basis for the claimed subject matter, and correction was required. The Examiner stated that in claim 7, an outer cover layer having a modulus in a range of about 1,000 to about 30,000 psi is not in the specification.

The specification has been amended to state that the outer cover layer preferably comprises "a soft, low modulus non-ionomeric thermoplastic elastomer having a flex modulus in a range of about 1,000 to about 30,000 psi,...". Support for this amendment may be found in original claim 6 of a parent application, U.S. Patent Application Serial No. 08/556,237, filed on November 9, 1995. Original claim 6 (initially mislabeled as claim 8 in the specification) specifies that the outer cover layer has a flex modulus in a range of about 1,000 to about 30,000 psi. Specifically, claim 6 reads as follows:

[8.] 6. A multi-layer golf ball comprising: a spherical core;



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P-3724-2-F1-C1-C1

an inner cover layer molded over said spherical core to form a spherical intermediate ball, said inner cover layer comprising an ionomeric resin having no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid and having a modulus of from about 15,000 to about 70,000 psi;

an outer cover layer molded over said spherical intermediate ball to form a multi-layer golf ball, the outer layer comprising a non-ionomeric elastomer selected from the group consisting of polyester elastomer, polyester, polyether polyurethane and polyester amide, said outer cover layer having a modulus in a range of about 1,000 to about 30,000 psi. (Emphasis added.)

Applicant therefore respectfully submits that the specification provides proper antecedent basis for the claimed subject matter, therefore Applicant respectfully requests that the objection be reconsidered and withdrawn.

Claims 2 and 4 to 8 were rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The Examiner stated that the Shore D hardness for the outer cover layer is 20 to 40 according to the specification (page 15, line 1).

Applicant respectfully submits that the Shore D hardness for the outer cover layer is not 20 to 40. Applicant respectfully submits that the specification, at page 15, line 1, which is continued from page 14, lines 25 and 26, is describing the Shore D (20 to 40) hardness of a low modulus ionomer suitable for use in the outer layer blend. The Shore D hardness of the outer cover layer, which in claims 2, 4 and 7 is "less than 64" or "64 or less", is supported by the specification. See, for example, the table on page 24, describing Estane® X-4517 as having a Shore D hardness of 39, and Table 9, which shows that the golf balls having an outer cover layer of polyurethane have a Shore C of 65. A Shore C of 65 converts to a Shore D of less than 64, approximately 40 to 50, as shown by both Table 4 on page 14 of GB2276628 and a comparison chart from the Rex Gauge Company (copies attached as Appendix A and Appendix B). Applicant respectfully submits that this overcomes the rejection of claims 2 and 4 to 8



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under 35 U.S.C. § 112, first paragraph. Applicant therefore respectfully requests that the rejection of claims 2 and 4 to 8 be reconsidered and withdrawn.

Attached hereto is a marked-up version of the changes made to the application by this Amendment. The Examiner is invited to telephone Applicant's attorney if it is deemed that a telephone conversation will hasten prosecution of the application.

CONCLUSION

Applicant respectfully requests reconsideration and allowance of each of the presently rejected claims, claims 2 and 4 to 8. Applicant respectfully requests allowance of claims 1 to 8, the claims currently pending.

Respectfully submitted,

MICHAEL J. SULLIVAN

Customer No. <u>24492</u> Phone: (413) 322-2937

Date: March 14, 2002

By: Mullipage Bugbee Bugbee Bugbee Bugbee, Reg. No. 42,370 Spalding Sports Worldwide Attorneys for Applicant 425 Meadow Street P.O. Box 901

Chicopee, MA 01021-0901

cc: Richard M. Klein, Esquire (SLD 2 0035-3-3-1-1-1)



MAR 14 '02 07:07PM PATENT DEPT

P.5/8

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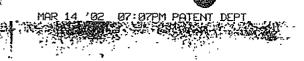
VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION

Please replace the paragraph beginning at page 24, line 5, with the following rewritten paragraph:

Moreover, in alternative embodiments, the outer cover layer formulation may also comprise a soft, low modulus, non-ionomeric thermoplastic elastomer having a flex modulus in a range of about 1,000 to about 30,000 psi, including a polyester polyurethane such as B.F. Goodrich Company's Estane® polyester polyurethane X-4517. According to B.F. Goodrich, Estane® X-4517 has the following properties:





Appendix A - Page

2276628

""UK Patent Application "GB "2 276 628 "A

(43) Date of A Publication 05.10.1894

- (21) Application No 9404489.0
- (22) Date of Hiling 68.63.1894
- (30) Priority Data (31) 05082714
- (22) 17.02.1993
- 171) Applicant(s)
 Bridgestone Sports Co Ltd
 - (Incorporated in Japan) . *
 - 45 Higashimatsushita-cho, Kanda, Chiyoda-ku, Tohyo, Japan
- (72) Inventorie)

 Yeshinori Egazhira
 Hisashi Yamagishi
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 Jun Shindo
- (74) Agent and/or Address for Service Mewbarn Ellis York House, 23 Kingsway, LONDON, WCZB 6HP, United Kingdom

- (51) INT CL⁵
 A63B 37/60
- (52) UK CL (Edition M.)
 C3V VEM
 C3M MXC M119 M127 M153 M170
 C3W W113 W207 W209 W213
 U1S S1166
- (56) Documents Cited
 GB 2284302 A GB 2214515 A
 WPI Abstract Accession No 91-026451/04 & JP
 2297384A WPI Abstract Accession No 90-144918/19 &
 JP 2092378A
- (68) Field of Search

 UK CL (Edition M) C3M MXC , C3V VEM
 INT CL⁵ A63B

 Online databases : WPI

(54) Golf balls

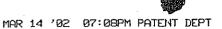
(57) A solid golf ball includes a solid core enclosed in a cover. The resin component of the cover consists of 30 to 100% by weight of an ethylene-methacrylic acid-acrylate terpolymer ionomer resin having a flexural modulus of 2,500 - 14,000 psi and a Shore D hardness of 20 - 59 and 70 to 0% by weight of an ethylene-(meth)acrylic acid copolymer ionomer resin having a flexural modulus of 20,000 - 30,000 psi and a Shore D hardness of 56 - 64. The core is made of a rubber composition comprising 100 parts by weight of a base rubber and 0.2 - 1.5 parts by weight of pentachlorothiophenol and/or metal salt thereof and has a distortion of 2.3 - 3.3 mm under a load of 100 kg. The ball is excellent in spin receptivity, burning resistance, and repulsion.

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Appendix B

Com	I A SUI Chart This chart is for comparison purposes only. This is not and cannot be used as a conversion chart.
A	10 20 30 40 50 60 70 80 90 100
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DO	10 20 30 40 50 60 70 80 90 100
0	10 20 30 40 50 60 70 80 90 100
00	10 20 30 40 50 60 70 80 90 100
M	30 40 50 60 70 80 90

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Fex 847-465-9229 | E-mail info@durometer.com

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Case 1:06-cv-00091-SLR Document 227-3 Filed 08/14/07 Page 44 of 70 PageID #: 5218









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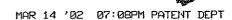
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/776,278	02/02/2001	Michael J. Sullivan	P-3724-2-F1-C1-C1	1289
759	90 06/19/2002		·	
Diane F. Cove	llo, Esq.		EXAMI	NER
Spalding Sports 425 Meadow St			GORDON,	RAEANN
PO Box 901	01021 0001		ART UNIT	PAPER NUMBER
Chicopee, MA	01021-0901		3711 DATE MAILED: 06/19/2002	JD:

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

		Application	ło.	Applicant(s)
		09/776,278		SULLIVAN, MICHAEL J.
	Office Action Summary	Examiner		Art Unit
		Raeann Gord		3711
Period for	- The MAILING DATE of this communication a	ppears on the co	ver sheet with the c	orrespondence address
A SHC THE N - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 CFR BIX (6) MONTHS from the mailing date of this communication. period for reply sepecified above is less than thirty (30) days, a re period for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by state ply received by the Office later than three months after the main dipatent term adjustment. See 37 CFR 1.704(b).	N, 1.136(a). In no event, eply within the statuton od will apply and will ex-	however, may a repty be tim y minimum of thirty (30) day pire SIX (6) MONTHS from ion to become ABANDONE	nely filed s will be considered timely, the mailing date of this communication. D (35 U.S.C. § 133).
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2a)	•	This action is no	n-final.	
3)□	Since this application is in condition for allo closed in accordance with the practice und	wance except for er Ex parte Qua	or formal matters, pi yle, 1935 C.D. 11, 4	rosecution as to the merits is 453 O.G. 213.
Dispositi	on of Claims			
, ·	Claim(s) 1-8 is/are pending in the application			
	4a) Of the above claim(s) is/are withd	frawn from cons	deration.	
5)□	Claim(s) is/are allowed.			,
1	Claim(s) <u>1-8</u> is/are rejected.			
i .	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and	d/or election req	uirement.	
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,	The specification is objected to by the Exam		signed to by the Eva	· Iminer
10)[_]	The drawing(s) filed on is/are: a) ☐ ac Applicant may not request that any objection to			
44107-	The proposed drawing correction filed on	is: a)∏ ann	roved b) disappr	oved by the Examiner.
'')'	If approved, corrected drawings are required in			
12)[]	The oath or declaration is objected to by the			
1	inder 35 U.S.C. §§ 119 and 120			
	Acknowledgment is made of a claim for fore	eian priority unde	er 35 U.S.C. § 119(a	a)-(d) or (f).
1	☐ All b)☐ Some * c)☐ None of:		•	
4	1. Certified copies of the priority docume	ents have been	received.	
	2. Certified copies of the priority docum			tion No
* <	Copies of the certified copies of the papplication from the International See the attached detailed Office action for a	oriority documen Bureau (PCT R	ts have been receiv ule 17.2(a)).	red in this National Stage
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1) Notice	press on the of References Cited (PTO-892) one of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No) .		ry (PTO-413) Paper No(s) I Patent Application (PTO-152)

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)





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00	10 20 30 40 50 60 70 80 90 100
M	30 40 50 60 70 80 90

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/776,278 02/02/2001		Michael J. Sullivan	P-3724-2-F1-C1-C1	1289	
7:	590 06/19/2002				
Diane F. Covello, Esq.			EXAMINER		
Spalding Sports Worldwide, Inc. 425 Meadow Street			GORDON,	RAEANN	
PO Box 901 Chicopee, MA	01021-0901		ART UNIT	PAPER NUMBER	
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			DATE MAILED: 06/19/2002	ען	

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PTO-90C (Rev. 07-01)

		CW 030
S. Petent and Trademark Office PTO-326 (Rev. 04-01)	Office Action Summar	Part of Paper No. 10
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Information Disclosure Statement(s) (PTO-892)		4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:
Attachment(s)		
a) ☐ The translation of the for 15)☑ Acknowledgment is made of		
14) Acknowledgment is made of a	claim for domestic priority un	nder 35 U.S.C. § 119(e) (to a provisional application)
3. Copies of the certified application from the See the attached detailed Office.	e International Bureau (PCT I	ents have been received in this National Stage Rule 17.2(a)). Tied copies not received.
		n received in Application No
•	priority documents have beer	

Application/Control Number: 09/776,278

Art Unit: 3711

Page 2

DETAILED ACTION

The indicated alllowability of clams 1 and 3 has been withdrawn.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2 and 4-8 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The Shore D hardness less than 64 for the outer cover layer has not been disclosed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nesbitt in view of Sullivan '814 and Wu. Nesbitt discloses a golf ball comprising a core, an inner cover layer, and an outer cover layer. The inner cover layer has a thickness

Application/Control Number: 09/776,278

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form 0.020 to 0.070 inch and is made from a high flexural modulus ionomer. The outer cover layer has a thickness from 0.020 to 0.10 inch and is made from a low flexural modulus ionomer. The golf ball has an overall diameter of 1.68 inches. Nesbitt further discloses the inner cover layer material may include Surlyn 1605, which has a 15% acid content. Nesbitt does not disclose a blend of ionomers for the inner cover layer. Sullivan teaches a blend ionomers for the cover layer. One skilled in the art would have included additional ionomers to provide improve the durability. Nesbitt also does not disclose polyurethane for the outer cover. Wu teaches a polyurethane cover. One skilled in the art would have modified the cover material with polyurethane since it is known to provide good shear resistance, cut resistance, durability, and resiliency (Wu col 2).

Response to Arguments

Applicant's arguments filed 3-14-02 have been fully considered but they are not persuasive. The 35 U.S.C. 112, first paragraph rejection is maintained. Applicant does not disclose a Shore D hardness less than 64 for the outer cover layer. Applicant argues the specification discloses a Shore D hardness of 39 (page 24) and a Shore C hardness of 65 (table), which converts to approximately 41 on the Shore D scale. The entire range is not fully disclosed.

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Art Unit: 3711

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raeann Gorden whose telephone number is (703) 308-8354. The examiner can normally be reached Monday-Thursday and alternating Fridays from 8:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Sewell can be reached on 703-308-2126. The fax number for the organization where this application or proceeding is assigned is 703-308-7768.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

rg June 6, 2002

Mark S. Graham

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S, Patent and Tredemark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 10

SEP 16 '02 11:53AM PATENT DEPT



P.1/6 / ROPENS

P-3724-2-F1-C1-C1 PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of Michael J. Sullivan

Serial No.:

09/776,278

Filing Date: February 2, 2001

Examiner: R. Gorden

Group Art Unit: 3711

For: IMPROVED MULTI-LAYER GOLF BALL

Commissioner for Patents & Trademarks Washington, DC 20231

FAX RECEIVED

SEP 18 7002

GROUP 3/00.

Sir:

RESPONSE

In response to the Office Action of June 19, 2002, please consider the following remarks:

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.80)

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Date:

9116 ,200

FACSIMILE

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transmitted by facsimile to the Patent and Trademark Office to Examiner R. Gorden in TC3700 at 703-872-9302.

Laura (Nojan

Received from < 4133222575 > at 9/16/02 11:52:26 AM [Eastern Daylight Time]



P.2/6

09/776,278

P-3724-2-F1-C1-C1

REMARKS

Reconsideration of the application and entry of the amendment are respectfully requested. Claims 1 to 8 are currently pending, and no claims have been amended.

The Office Action mailed June 19, 2002 addressed Claims 1 to 8. Claims 1 to 8 were rejected.

Claims 2 and 4 to 8 were rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The Examiner stated that the Shore D hardness less than 64 for the outer cover has not been disclosed.

Applicant respectfully submits that the Shore D hardness of less than 64 for the outer cover layer has been disclosed. Applicant respectfully submits that original claims 1 and 5 of a parent application, U.S. Patent Application Serial No. 08/556,237, filed on November 9, 1995, disclose "an outer cover layer having a Shore D hardness of 64 or less" and "an outer cover layer having a Shore D hardness of about 64 or less" respectively. Since the original claims are considered part of the specification, Applicant respectfully submits that the Shore D hardness of 64 or less has been disclosed. Applicant would be amenable to amending the specification to contain this specific language if required by the Examiner. Applicant respectfully submits that this overcomes the rejection of claims 2 and 4 to 8 under 35 U.S.C. § 112, first paragraph. Applicant therefore respectfully requests that the rejection of claims 2 and 4 to 8 be reconsidered and withdrawn.

Claims 1 and 3 were rejected under 35 U.S.C. 103(a) as being unpatentable over Nesbitt in view of Sullivan '814 and Wu. The Examiner stated that Nesbitt discloses a golf ball comprising a core, an inner cover layer and an outer cover layer. The Examiner further stated that the inner cover layer has a thickness from 0.020 to 0.070 inches and is made from a high flexural modulus ionomer, and the outer cover has a thickness of from 0.020 to 0.10 inches and is made from a low flexural modulus ionomer. The Examiner further stated that the golf ball has an overall diameter of 1.68 inches, and the inner cover layer material may include Surlyn 1605 which has a 15%

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acid content. The Examiner further stated that Nesbitt does not disclose a blend of ionomers for the inner cover layer, but Sullivan teaches a blend of ionomers for the cover layer, and one skilled in the art would have included additional ionomers to improve the durability. The Examiner concluded that Nesbitt also does not disclose polyurethane for the outer cover, but Wu teaches a polyurethane cover, and one skilled in the art would have modified the cover material with polyurethane since it is known to provide good shear resistance, cut resistance, durability, and resiliency.

Applicant respectfully submits that the Examiner has failed to make out a prima facie case of obviousness. Nesbitt, the primary reference, discloses a golf ball comprising a core and a multi-layer cover. The inner cover layer comprises a hard, high flexural modulus ionomer, and the outer cover layer comprises a soft, low flexural modulus ionomer. Nesbitt uses as examples Surlyn[®] 1605 and 1855 ionomers, high and low flexural modulus ionomers respectively. Nesbitt does not disclose a multi-layer cover where the inner cover layer comprises a high acid ionomer containing no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid and the outer cover layer comprises a polyurethane material.

Sullivan discloses a two piece golf ball having a core and a cover, wherein the cover is formed from a blend of a hard and a soft ionomer. The hard and soft ionomers are very specific ionomers, and the soft ionomer is a terpolymer. The two ionomers are blended in specific ratios. Sullivan does not disclose blending two ionomers wherein at least one of the ionomers contains no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid.

Applicant respectfully submits that there is no motivation or teaching to combine Nesbitt and Sullivan. There is no motivation to substitute the blend of a hard ionomer and soft ionomer terpolymer of Sullivan for the low acid ionomer of Nesbitt because Nesbitt as an inner cover containing a high flexural modulus ionomer and an outer cover containing a low flexural modulus ionomer. Additionally, Applicant respectfully submits that there is no motivation, teaching or suggestion in Sullivan to use a blend of ionomer resins of any type in an <u>inner</u> cover layer. Instead, the only specific teaching in Sullivan shows blends of ionomers in golf ball <u>outer</u> covers of two piece golf balls.

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Wu is directed to a golf ball having a core and a single layer cover comprising a specific polyurethane. Wu does not disclose a multi-layer cover.

Since, as discussed above, the primary reference, Nesbitt, is deficient because it does not disclose a golf ball having a multi-layer cover, wherein the inner cover layer comprises a blend of two or more ionomers wherein at least one ionomer contains no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid and the outer cover layer comprises a polyurethane material, the addition of Sullivan and/or Wu as a secondary reference does not cure this deficiency. Applicant respectfully submits that even if Sullivan is combined with Nesbitt, Sullivan is not directed to a blend of two or more ionomers wherein at least one ionomer contains no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid, therefore the combination would not produce a golf ball having a cover layer containing blend of two or more ionomers wherein at least one ionomer contains no more than 16% by weight of an alpha, betaunsaturated carboxylic acid. Furthermore, Applicant respectfully submits that one skilled in the art would not be motivated by Wu to add a polyurethane cover to Nesbitt because Nesbitt has a multi-layer cover with specific features, and Wu has a single layer cover. Even if both Sullivan and Wu were combined with Nesbitt, Applicant's golf ball would not be produced because neither Nesbitt alone as the primary reference, nor in combination with Sullivan and/or Wu, produces a golf ball comprising an inner cover layer comprising a blend of two or more ionomers wherein at least one ionomer contains no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid and an outer cover layer comprising a polyurethane. Both Wu and Sullivan are directed to golf balls with single cover layers, therefore, there is no motivation to substitute either the blend of ionomers of Sullivan's outer cover or the specific polyurethane of Wu's outer cover for the inner cover layer of Nesbitt.

Furthermore, Applicant respectfully submits that a prior art patent, such as Nesbitt, Sullivan or Wu, must be considered as a whole, and it is impermissible to pick and choose from one reference only so much of it as will support a given position to the exclusion of other parts necessary for the full appreciation of what the reference fairly suggests to one skilled in the art. Applicant respectfully submits that the Examiner is

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picking and choosing cover materials from prior art patents directed to golf balls with a single layer cover in an attempt to recreate Applicant's invention.

Applicant respectfully submits that one skilled in the art would not add the ionomer blend of Sullivan to the cover of Nesbitt because Sullivan's ionomer blend is a very specific blend of a hard ionomer and a soft terpolymer ionomer and the cover of Sullivan is a single layer, nor would one skilled in the art add the polyurethane of Wu to the cover of Nesbitt because the cover of Wu is a single layer and one would not add the single layer polyurethane cover of Wu to the multi-layer cover of Nesbitt since it would not necessarily achieve the same goals as a specific combination of cover layers such as that in Nesbitt.

For at least these reasons, Applicant respectfully submits that claims 1 and 3 are not obvious under 35 U.S.C. § 103(a) over Nesbitt in view of Sullivan and Wu. Applicant therefore respectfully requests that the rejection of claims 1 and 3 under 35 U.S.C. § 103(a) as obvious over Nesbitt in view of Sullivan and Wu be reconsidered and withdrawn.

The Examiner is invited to telephone Applicant's attorney if it is deemed that a telephone conversation will hasten prosecution of the application.

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CONCLUSION

Applicant respectfully requests reconsideration and allowance of each of the presently rejected claims, claims 1 to 8. Applicant respectfully requests allowance of claims 1 to 8, the claims currently pending.

Respectfully submitted,

MICHAEL J. SULLIVAN

Customer No. <u>24492</u> Phone: (413) 322-2937

Date: featember 16, 2002

By: Www. Puppel
Michelle Bugbee, Reg. No. 42,370
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Attorneys for Applicant 425 Meadow Street

P.O. Box 901

Chicopee, MA 01021-0901

cc: Richard M. Klein, Esquire (SLD 2 0035-3-3-1-1-1)









United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARK
Weshington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/776,278 02/02/2001		Michael J. Sullivan	P-3724-2-F1-C1-C1	1289
75	90 11/25/2002			
Diane F. Cove			EXAM	NER
425 Meadow St	Worldwide, Inc. reet		GORDON,	RAEANN
PO Box 901 Chicopee, MA	01021-0901		ART UNIT	PAPER NUMBER
отпоров, т.	0.000	, a	3711	#17-
			DATE MAILED: 11/25/2002	411

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

Cas	e 1:06-cv-00091-SLR	Document 22	27-3 Filed 08/14/07	Page 60 of 70 PageID #:	5 234
			Application No.	Applicant(s)	+
		•	09/776,278	SULLIVAN, MICHAEL J.	
	Office Action Summ	ary	Examiner	Art Unit	
-			Raeann Gorden	3711	
Period fo		ommunication app	ears on the cover sheet with	the correspondence address	
A SHO THE N - Exteri after: - If the - If NO - Failur - Any re	ORTENED STATUTORY PERMAILING DATE OF THIS COI isions of time may be available under the SIX (6) MONTHS from the mailing date of period for reply specified above is less the	MMUNICATION. provisions of 37 CFR 1.13 this communication. In thirty (30) days, a reply asymum statutory period with or reply will, by statute, a months after the mailing	36(a). In no event, however, may a rep within the statutory minimum of thirty (vill apply and will expire SIX (6) MONTF cause the application to become ABAI	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
1)⊠	Responsive to communicati	on(s) filed on <u>16 S</u>	September 2002 .		
2a)⊠	This action is FINAL.	2b) <u></u> Thi	s action is non-final.		
3)	Since this application is in c closed in accordance with the			rs, prosecution as to the merits is 11, 453 O.G. 213.	;
Dispositi	on of Claims				
4)🖂	Claim(s) 1-8 is/are pending i	n the application.			
•	4a) Of the above claim(s)	is/are withdrav	vn from consideration.	•	
5)[]	Claim(s) is/are allowed	d.			
6)⊠	Claim(s) <u>1-8</u> is/are rejected.				
7)	Claim(s) is/are objected	ed to.			
8)	Claim(s) are subject to	restriction and/or	election requirement.		
Application	on Papers				
9) 🔲 🗆	The specification is objected t	o by the Examine	·.		
10) 🔲 🗆	The drawing(s) filed on	is/are: a)□ accep	ted or b) objected to by the	Examiner.	
	Applicant may not request that			, ,	
11) 🔲 7	The proposed drawing correct	ion filed on	, is: a)□ approved b)□ dis	approved by the Examiner.	
	If approved, corrected drawing		•		
	The oath or declaration is obje	-	aminer.		
	nder 35 U.S.C. §§ 119 and 1				
	Acknowledgment is made of	-	priority under 35 U.S.C. §	119(a)-(d) or (f).	
•	☐ All b)☐ Some * c)☐ No				
	1. Certified copies of the	-		#	
	•	•	s have been received in App		
		e International Bur	eau (PCT Rule 17.2(a)).	ceived in this National Stage ceived.	
14)[] A	cknowledgment is made of a	claim for domestic	priority under 35 U.S.C. §	119(e) (to a provisional applicatio	n).
	☐ The translation of the forection The translation of the forection.				
Attachment	(s)		_		
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing R nation Disclosure Statement(s) (PTO			mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)	

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 09/776,278

Art Unit: 3711

Page 2

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2 and 4-8 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The Shore D hardness less than 64 for the outer cover layer has not been disclosed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nesbitt in view of Sullivan '814 and Wu. Nesbitt discloses a golf ball comprising a core, an inner cover layer, and an outer cover layer. The inner cover layer has a thickness form 0.020 to 0.070 inch and is made from a high flexural modulus ionomer. The outer cover layer has a thickness from 0.020 to 0.10 inch and is made from a low flexural

Case 1:06-cv-00091-SLR Document 227-3 Filed 08/14/07 Page 62 of 70 PageID #: 5236

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Page 3

modulus ionomer. The golf ball has an overall diameter of 1.68 inches. Nesbitt further discloses the inner cover layer material may include Surlyn 1605, which has a 15% acid content. Nesbitt does not disclose a blend of ionomers for the inner cover layer. Sullivan teaches a blend ionomers for the cover layer. One skilled in the art would have included additional ionomers to provide improve the durability. Nesbitt also does not disclose polyurethane for the outer cover. Wu teaches a polyurethane cover. One skilled in the art would have modified the cover material with polyurethane since it is known to provide good shear resistance, cut resistance, durability, and resiliency (Wu col 2).

Response to Arguments

Applicant's arguments filed 9-16-02 have been fully considered but they are not persuasive. The 35 U.S.C. 112, first paragraph rejection is maintained. To overcome the rejection, applicant is required to amend the specification to include the hardness for the outer cover layer as well as provide a copy of the originally filed claims from the parent application which applicant seeks to claim priority. Applicant's arguments in regards to the prior art rejection are not persuasive. Applicant argues there is no motivation to modify Nesbitt with Sullivan and Wu by substituting the materials for the cover layers. The primary reference, Nesbitt, discloses applicant's invention but fails to disclose the materials for the cover layers. Applicant claims an inner cover layer comprising at least two ionomers, wherein at least one of the ionomers contain no more than 16% acid. Nesbitt discloses an inner cover layer comprising one ionomer with an

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acid content less than 16%. Sullivan teaches cover compositions comprising at least two ionomers. Although Sullivan does not mention the acid content of the ionomers it is well known that the Surlyn ionomers taught by Sullivan are not high acid ionomers and contain less than 16% acid. The Wu reference is also used a secondary reference to teach the polyurethane for the outer cover layer. The Nesbitt reference discloses a soft outer cover layer but only discloses soft ionomers. Since polyurethanes are known in the golfing art for providing softer covers with increased durability and resiliency the modification is within the capabilities of one skilled in the art.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raeann Gorden whose telephone number is (703) 308-

Case 1:06-cv-00091-SLR Document 227-3 Filed 08/14/07 Page 64 of 70 PageID #: 5238

Application/Control Number: 09/776,278

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Page 5

8354. The examiner can normally be reached Monday-Thursday and alternating Fridays from 8:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Sewell can be reached on 703-308-2126. The fax number for the organization where this application or proceeding is assigned is 703-308-7768.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

Mark S. Graham Primary Examiner

rg November 20, 2002

CW 0309079

Case 1:06-cv-00091-SLR Document 227-3 Filed 08/14/07 Page 65 of 70-PageID #: 5239

JAN 21 '03 07:43AM PAT



PATENT P-3724-2-F1-C1-C1 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of Michael J. Sullivan

09/776,278 Serial No.:

Examiner: R. Gorden

Filing Date: February 2, 2001

Group Art Unit: 3711

For: IMPROVED MULTI-LAYER GOLF BALL

Box AF Commissioner for Patents & Trademarks Washington, DC 20231

FAX RECEIVED JAN 2 1 2003

GROUP 3700

Sir:

RESPONSE TO FINAL OFFICE ACTION UNDER 37 CFR § 1.116

This is in response to the Final Office Action mailed November 25, 2002, in connection with the present application. Entry of the following amendment to the application is requested.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8a)

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

Date:

FACSIMILE

 $\mathbf{X}\mathbf{X}$

deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

2003

transmitted by facsimile to the Patent and Trademark Office to Examiner R. Gorden in TC3700 at 703-872-9303.

Received from <4133222575 > at 1/21/03 7:43:31 AM [Eastern Standard Time]



P.Z

09/776,278

P-3724-2-F1-C1-C1

IN THE SPECIFICATION

Please replace the paragraph beginning at page 24, line 23 with the following rewritten paragraph:

Other soft, relatively low modulus non-ionomeric thermoplastic elastomers may also be utilized to produce the outer cover layer as long as the non-ionomeric thermoplastic elastomers produce the playability and durability characteristics desired without adversely effecting the enhanced spin characteristics produced by the low acid ionomer resin compositions. Preferably, the non-ionomeric thermoplastic elastomers have a Shore D hardness of 64 or less. These include, but are not limited to thermoplastic polyurethanes such as: Texin® thermoplastic polyurethanes from Mobay Chemical Co. and the Pellethane® thermoplastic polyurethanes from Dow Chemical Co.; Ionomer/rubber blends such as those in Spalding U.S. Patents 4,986,545; 5,098,105 and 5,187,013; and, Hytrel® polyester elastomers from DuPont and Pebax® polyetheramides from Elf Atochem S.A.

<u>REMARKS</u>

Reconsideration of the application and entry of the amendment are respectfully requested. Claims 1 to 8 are currently pending, and no claims have been amended.

The Final Office Action mailed November 25, 2002 addressed claims 1 to 8. Claims 1 to 8 were rejected.

Claims 2 and 4 to 8 were rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The Examiner stated that the Shore D hardness less than 64 for the outer cover has not been disclosed.

Applicant respectfully submits that the Shore D hardness of less than 64 for the outer cover layer has been disclosed. Applicant respectfully submits that original claims 1 and 5 of a parent application, U.S. Patent Application Serial No. 08/556,237, filed on November 9, 1995, disclose "an outer cover layer having a Shore D hardness of 64 or less" and "an outer cover layer having a Shore D hardness of about 64 or less"

P.3

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respectively. Since the original claims are considered part of the specification, Applicant respectfully submits that the Shore D hardness of 64 or less has been disclosed. As required by the Examiner in the Final Office Action, the specification has been amended to include the hardness for the outer cover layer, and a copy of the originally filed claims is attached to this response. Applicant respectfully submits that this overcomes the rejection of claims 2 and 4 to 8 under 35 U.S.C. § 112, first paragraph. Applicant therefore respectfully requests that the rejection of claims 2 and 4 to 8 be reconsidered and withdrawn.

Claims 1 and 3 were rejected under 35 U.S.C. 103(a) as being unpatentable over Nesbitt in view of Sullivan '814 and Wu. The Examiner stated that Nesbitt discloses a golf ball comprising a core, an inner cover layer and an outer cover layer. The Examiner further stated that the inner cover layer has a thickness from 0.020 to 0.070 inches and is made from a high flexural modulus ionomer, and the outer cover has a thickness of from 0.020 to 0.10 inches and is made from a low flexural modulus ionomer. The Examiner further stated that the golf ball has an overall diameter of 1.68 inches, and the inner cover layer material may include Surlyn 1605 which has a 15% acid content. The Examiner further stated that Nesbitt does not disclose a blend of ionomers for the inner cover layer, but Sullivan teaches a blend of ionomers for the cover layer, and one skilled in the art would have included additional ionomers to improve the durability. The Examiner concluded that Nesbitt also does not disclose polyurethane for the outer cover, but Wu teaches a polyurethane cover, and one skilled in the art would have modified the cover material with polyurethane since it is known to provide good shear resistance, cut resistance, durability, and resiliency.

Applicant respectfully submits that the Examiner has failed to make out a prima facie case of obviousness. Nesbitt, the primary reference, discloses a golf ball comprising a core and an improved multi-layer cover. The inner cover layer comprises a single hard, high flexural modulus ionomer, and the outer cover layer comprises a soft, low flexural modulus ionomer. Nesbitt uses as examples Surlyn® 1605 and 1855 ionomers, high and low flexural modulus ionomers respectively. Nesbitt does not disclose a multi-layer cover where the inner cover layer comprises a blend of two or

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more ionomers wherein at least one ionomer is an ionomer containing no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid and the outer cover layer comprises a polyurethane material.

Sullivan discloses a two piece golf ball having a core and a cover, wherein the cover is formed from a blend of a hard and a soft ionomer. The hard and soft ionomers are very specific ionomers, and the soft ionomer is a terpolymer. The two ionomers are blended in specific ratios. Sullivan does not disclose blending two ionomers wherein at least one of the ionomers contains no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid.

Applicant respectfully submits that there is no motivation or teaching to combine Nesbitt and Sullivan. There is no motivation to substitute the single layer cover of Sullivan that comprises a blend of a hard ionomer and soft ionomer terpolymer for the single, high flex modulus ionomer of Nesbitt's inner cover layer, but even if it was substituted, a golf ball having an inner cover layer comprising a blend of ionomers wherein at least one of the ionomers comprises no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid would not be produced. Additionally, Applicant respectfully submits that there is no motivation, teaching or suggestion in Sullivan to use a blend of ionomer resins of any type in an inner cover layer. Instead, the only specific teaching in Sullivan shows blends of ionomers in golf ball outer covers or single, thicker cover layers of two piece golf balls.

Wu is directed to a golf ball having a core and a single layer cover comprising a specific polyurethane. Wu does not disclose a multi-layer cover.

Since, as discussed above, the primary reference, Nesbitt, is deficient because it does not disclose a golf ball having a multi-layer cover, wherein the inner cover layer comprises a blend of two or more ionomers wherein at least one ionomer contains no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid and the outer cover layer comprises a polyurethane material, the addition of Sullivan and/or Wu as a secondary reference does not cure this deficiency. Applicant respectfully submits that even if Sullivan is combined with Nesbitt, Sullivan is not directed to a blend of two or more ionomers wherein at least one ionomer contains no more than 16% by weight of

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an alpha, beta-unsaturated carboxylic acid, therefore the combination would not produce a golf ball having a cover layer containing blend of two or more ionomers wherein at least one ionomer contains no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid. Furthermore, Applicant respectfully submits that one skilled in the art would not be motivated by Wu to add a polyurethane cover to Nesbitt because Nesbitt has a multi-layer cover with specific features, and Wu has a single layer cover. Even if both Sullivan and Wu were combined with Nesbitt, Applicant's golf ball would not be produced because neither Nesbitt alone as the primary reference, nor in combination with Sullivan and/or Wu, produces a golf ball comprising an inner cover layer comprising a blend of two or more ionomers wherein at least one ionomer contains no more than 16% by weight of an alpha, beta-unsaturated carboxylic acid and an outer cover layer comprising a polyurethane. Both Wu and Sullivan are directed to golf balls with single cover layers, therefore, there is no motivation to substitute either the blend of ionomers of Sullivan's single cover layer or the specific polyurethane of Wu's single cover layer for the inner cover layer of Nesbitt.

Furthermore, Applicant respectfully submits that a prior art patent, such as Nesbitt, Sullivan or Wu, must be considered as a whole, and it is impermissible to pick and choose from one reference only so much of it as will support a given position to the exclusion of other parts necessary for the full appreciation of what the reference fairly suggests to one skilled in the art. Applicant respectfully submits that the Examiner is picking and choosing cover materials from prior art patents directed to golf balls with a single layer cover in an attempt to recreate Applicant's invention. Applicant respectfully submits that the Examiner has not shown the motivation, teaching or suggestion to combine Sullivan and Wu with Nesbitt, and the only teaching is found in Applicant's own disclosure.

Finally, Applicant respectfully submits that one skilled in the art would not add the ionomer blend of Sullivan to the cover of Nesbitt because Sullivan's ionomer blend is a very specific blend of a hard ionomer and a soft terpolymer ionomer and the cover of Sullivan is a single layer, nor would one skilled in the art add the polyurethane of Wu to the cover of Nesbitt because the cover of Wu is a single layer and one would not JÁN 21 '03 07:46AM PATEN DEPT



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add the single layer polyurethane cover of Wu to the multi-layer cover of Nesbitt since it would not necessarily achieve the same goals as a specific combination of cover layers such as that in Nesbitt.

For at least these reasons, Applicant respectfully submits that claims 1 and 3 are not obvious under 35 U.S.C. § 103(a) over Nesbitt in view of Sullivan and Wu. Applicant therefore respectfully requests that the rejection of claims 1 and 3 under 35 U.S.C. § 103(a) as obvious over Nesbitt in view of Sullivan and Wu be reconsidered and withdrawn.

Attached hereto is a marked-up version of the changes made to the application by this Amendment. The Examiner is invited to telephone Applicant's attorney if it is deemed that a telephone conversation will hasten prosecution of the application.

CONCLUSION

Applicant respectfully requests reconsideration and allowance of each of the presently rejected claims, claims 1 to 8. Applicant respectfully requests allowance of claims 1 to 8, the claims currently pending.

Respectfully submitted,

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